

# Franklin Academy High School

## 2016-2017

### Student Course Handbook

FRANKLIN ACADEMY HIGH SCHOOL  
42 Huskie Lane  
Malone, New York 12953

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FRANKLIN ACADEMY HIGH SCHOOL

42 Huskie Lane  
Malone, New York 12953  
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Principal: Brandon Pelkey  
Assistant Principal: Wade Bush  
Athletic Director: Eileen Kilcullen  
Counselor (A-G): Jane Dievendorf  
Counselor (H-O): Rosalyn Poirier  
Counselor (P-Z): Lisette Maguire

GRADUATION REQUIREMENTS:

Regents Diploma

Students must earn 22 high school credits, which must include:

Subject area	Credits	Regents Exams Required
English	4	1
Social Studies	4	2
Math	3	1
Science	3	1
Foreign Language	1	-
Health	½	-
Art	1	-
Physical Ed.	2	-

Regents Diploma with Advanced Designation

Students must earn 22 high school credits, which must include:

Subject area	Credits	Regents Exams Required
English	4	1
Social Studies	4	2
Math	3	3
Science	3	2
Foreign Language	3	-
Health	½	-
Art	1	-
Physical Ed.	2	-

#### CAREER AND TECHNICAL EDUCATION

Students who are interested in a Career and Technical Education at North Franklin Education Center may wish to participate in one of the following programs: Heavy Equipment Repair & Operation, Building Trades, Electrical Occupations, Health Occupations, Auto Technology, Cosmetology, Culinary Arts and Early Childhood Education. One or two-year programs are available for students in eleventh and twelfth grade. Refer to the section describing programs at the North Franklin Educational Center.

#### NEW VISION

The New Vision concept will place students interested in an Allied Health Career experience into a structured half day credit bearing program at the Alice Hyde Medical Center or in the Law/Government field placed in a local attorney's office or the courthouse.

#### COLLEGE CREDIT COURSES

In conjunction with North Country Community College, Paul Smiths College, SUNY Plattsburgh and St. Lawrence University there are a number of college courses offered at Franklin Academy.

#### COLLEGE ARTICULATION

Students at Franklin Academy may participate in college programs. With the permission of the High School Principal and the Superintendent of Schools, students may attend college programs and transfer credits back to Franklin Academy to be used in obtaining their high school diploma. If you are interested, please contact your guidance counselor.

# ART

Name of Course: Studio in Art Length of Course: 40 Weeks

Prerequisite: None Credits: 1

Description: This introductory course is designed to meet the art requirement for high school graduation as well as being a prerequisite for an art sequence/major. Because Studio in Art is a disciplined-based art course, students receive instruction in the four major areas of study: art criticism, art production, art history, and aesthetics. The course syllabus includes experiences in drawing, painting, sculpture, print making and possibly crafts. In the creation of each project, students are expected to manipulate the Elements and Principles of Design in a creative and original manner. Upon completion of this course, students with an aptitude and/or interest in art will be encouraged to continue on to the next level. This is the most basic art course offered and will give the students the most well-rounded exposure to the arts.

Name of Course: Creative Crafts I & II Length of Course: 20 Weeks /40 Weeks

Prerequisite: Preference given to 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> Grade Students Credits: 1/2; 1

Description: An introductory and continuing course which focuses on useful works of art. It can meet the requirement if taken as a full year class or combined with another half year class. Although Creative Crafts is geared towards hands on experience, projects are designed to develop an overall art awareness. Students are exposed to the history of art and are expected to demonstrate creative, critical thinking skills. Examples of possible projects are: leather tooling, basket-making, silk painting, ceramics, jewelry, fiber art, mosaics, stained glass, tie dye, stenciling and metal tooling. Students are instructed in the appropriate use of materials as well as the possibilities of each medium.

Name of Course: Ceramics Length of Course: 20 Weeks

Prerequisite: Studio in Art, Creative Crafts Or Survey of Art Credits: 1/2

Description: This course is only offered 2nd semester and is an advanced elective designed for students who are interested in working with clay. The general course outline includes the nature and history of Ceramics as well as the actual construction of clay pieces. Students will learn how to prepare, texture, and shape the clay as well as how to decorate, fire, and glaze. Both functional and decorative art will be explored.

Name of Course: Drawing + Painting I Length of Course: 20 Weeks

Prerequisite: Studio in Art Credits: 1/2

Description: This semester allows the student to explore a particular media in depth. Guidance will be offered in developing a sound, well-rounded portfolio. Further independent study is available with teacher/guidance approval.

Name of Course: Drawing + Painting II Length of Course: 20 Weeks

Prerequisite: Studio in Art Credits: 1/2

Description: This semester allows the student to explore a particular media in depth, painting in watercolor, acrylic, and oil. Guidance will be offered in developing a sound, well-rounded portfolio. Further independent study is available with teacher/guidance approval.

Name of Course: Sculpture Length of Course: 40 Weeks

Prerequisite: Studio in Art Credits: 1

Description: This course is an advanced elective which serves as an outlet for self-expression in three-dimensional media. A variety of media will be explored throughout the course of the year. The first three quarters have been designed to offer both aesthetic and technical experience in carving, modeling and casting. By learning different techniques and working with a variety of tools and materials, students will be better able to express themselves with dexterity and sensitivity. The last quarter of the year will offer an opportunity for students to choose and investigate a specific medium in depth. Photographs of the work will be included in the student's portfolio. Further independent study is available with teacher/guidance approval.

Name of Course: Survey of Art Length of Course: 20 /40 Weeks

Prerequisite: None Credits: \* 1/2; 1

Description: This course is offered for a full or half-year. All college bound students and art majors are strongly encouraged to take the course. The visual language of art is explored as students learn basic art terminology and the relationships between artists and the public and between different cultures and time periods. A number of art projects are incorporated into the curriculum to help students better understand concepts. Survey of Art meets the requirements of a Social Studies class. (\*1/2- Prehistoric to Renaissance; 1/2- Renaissance to Contemporary; 1-Prehistoric to Contemporary)

Name of Course: Advanced Art Length of Course: 40 Weeks

Prerequisite: Three full years of high school art Credits: 1

Description: This is the most advanced course offered at Franklin Academy and is offered only to those students who have completed Studio in Art, Drawing & Painting and Sculpture. The format of the course involves students independently using their problem solving abilities to creatively interpret the criteria for each project. Students will be given the freedom to choose their own media and the style and technique which appeals to them. In most cases, students enrolled in this course are planning on pursuing their interest in art after graduation from high school. Guidance will be offered in developing a good well-rounded portfolio.

Name of Course: Intro. To Photography Length of Course: 20 Weeks

Prerequisite: Studio in Art Credit: ½

Description: The Introduction to Photography course emphasizes the use of a 35mm camera, using black and white film while incorporating techniques for film processing, print enlarging, composition, fundamental aesthetics, and class critiques. The inclusion of hands-on projects will incorporate the history of photography, including digital imaging and philosophy as students learn to develop the technical and expressive skills they need to produce quality pictures.

# BUSINESS

Name of Course: Keyboarding I

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: Keyboarding applications in this course will be confined to the following areas: keyboard readiness, alphabetic keyboard, numeric keyboard and keypad, symbol keyboard, skill development, orientation to word processing, correspondence and reports.

Name of Course: Keyboarding II

Length of Course: 20 Weeks

Prerequisite: Keyboarding I

Credits: 1/2

Description: Keyboarding II includes expanded/advanced application of Keyboarding I: skill development, orientation to word processing, reports, correspondence, tables.

Name of Course: Business Law (College Credit NCCC)

Length of Course: 40 Weeks

Prerequisite: 11<sup>th</sup> and 12<sup>th</sup> Graders

Credits: 1

Description: Business Law is a full-year course that can be of great value and relevance to high school students as they take their place in a society that is controlled and highly regulated by complex legal principles and regulations that affect every citizen. The course includes nine (9) modules:  
-The Legal Environment (court systems, crimes, torts, etc.)  
-Contracts Basic requirements of all legal agreements)  
-Bailments (temporary possession of other's property)  
-Real Property (including renting)  
-Insurance (fire, auto, life, and social insurance's)  
-Financial Transfers (checks, notes, and certain investments)  
-Employment and Agency Relationships  
-Business Ownership  
-Transfer of Property through Wills and Intestacy

Name of Course: Street Law

Length of Course: 40 Weeks

Prerequisite: 11<sup>th</sup> and 12<sup>th</sup> Graders

Credits: 1

Description: Full year course where students will gain an insight into the general area of law along with the legal environment in which they live. Units of study include the following: Introduction to Law and the Legal System, Criminal Law and Juvenile Justice, Torts, Consumer and Housing Law, Family Law, and Individual rights and liberties.



Name of Course: Math and Financial Applications                      Length of Course: 40 Weeks

Prerequisite:      Student has passed the Algebra Regents                      Credits: 1

Description:      Math and Financial Applications is a 1-unit specialized interdisciplinary business course related to the Mathematics learning standards. This course is designed to prepare students for both college level business programs and to understand the complex financial world they will encounter during their lives. As outlined in the Commissioners Regulations 100.5 (a) (7) (iv), for students who have successfully passed the required Math A Regents examination and upon approval of the Board of Education, a specialized course may be used to fulfill one of the three units of mathematics required for the Regents diploma.

Name of Course: Sports Management    Length of Course: 20 Weeks

Prerequisite:      11<sup>th</sup> and 12<sup>th</sup> Graders    Credits: 1/2

Description:      It is the mission of the Sports Management program to prepare students for entry-level positions in the business of sport, such as event facility/ arena management, intercollegiate athletics management, sport organization management, sporting goods sales management, broadcasting and sports promotions. Students may be required to be at particular on-site locations throughout this course.

Name of Course: Driver Education    Length of Course: 20 Weeks

Prerequisite:      NYS permit or license; Age 16; US citizens                      Credits: 1/2

Description:      Driver Education is a class committed to providing drivers with information, which will help them drive safely. This course provides the opportunity for students to gain knowledge of the basic "rules of the-road," safe driving principles, defensive driving skills and other skills which will affect driving.

By actively participating in and completing Driver Education, students have the opportunity to develop and improve their driving behavior. Collisions and traffic violations may be greatly reduced or avoided entirely. The rewards to all highway users are well worth the investment of the time new drivers make to this class.

With the New York State Graduated license requirement all 16 and 17 year olds must hold their junior's learner's permit 6 months and acquire minimum of 20 hours of supervised driving experience to eligible to take a road test. By taking and successfully completing Driver Education, hours accumulated may be counted towards the 20 hour requirement.

Students will attend 24 clock hours of classroom and 6 hours on in car driving with 18 hours of in car observation to complete this course. Students will not receive credit, the New York State Blue Card, or the insurance reduction if they do not meet this attendance requirement. As attendance is a State mandated requirement, any student missing more than two classes will be dropped from this class.

Name of Course: Franklin Academy Yearbook  
"The Student"

Length of Course: 40 Weeks

Credits: 1/2 credit

Prerequisite: Each student desiring to become a staff member must hand in a portfolio that includes: (2) letters of recommendation (one must be from an English Teacher), samples of creative writing, samples of captions for photos, samples of photography.

Objectives: To produce a quality yearbook that reflects our school and community. To provide a publication students will look at for year to come. To have a student produced book that will allow students the opportunity to utilize their creativity in words and photos.

Description: The efforts of this course are focused on creating a finished product: a 192 page hardcover bound text created specifically for our school. What starts as an idea or concept becomes reality as students working on a team, create another edition of The Student. The end result will be a tribute to the dedication and effort each student brings to this cause. Being on the staff offers students the opportunity to gain life skills, assume responsibilities and have some fun at the same time. Yet for these results to be realized there is much work that needs to be done. The yearbook needs students who have the following skills: dedication to people and the publication, ability to meet exact deadlines, open-minded attitude, acceptance of new ideas, enthusiasm, consistency, communication skills, vision, responsibility, respect of school and fellow staff members, generosity with praise, tolerance for criticism, fairness, maturity, strong work ethic and persistence. If you feel you have these traits then you would be a good addition to the staff.

Name of course: Business Communications NCCC

Length: 40 weeks

Prerequisites: None (Keyboarding I recommended)

Credits: 1

Description: This is a study of the structure and types of business communications from a behavioral approach. Emphasis is placed on the organization and composition of various business letters, memos, e-mails, development of resumes, and on the techniques of report writing. Students will understand the communication process and they will write and speak effectively to individuals or to an organization.

Name of course: Sports Marketing NCCC

Length: 20 weeks

Prerequisites: None

Credits: 1/2

Description: Explores the marketing for college, amateur and professional sports, looks at the marketing of products and services through sports and studies the impact of public images on consumers. This half-year course allows students to get three college credits through NCCC in Principles of Marketing while applying the basics to the sporting worlds.

# COMPUTER APPLICATIONS

Name of Course: Computer Applications Length of Course: 20 Weeks  
Prerequisite: None (Keyboarding I recommended) Credits: 1/2  
Description: Computer Applications I is an introductory course that exposes students to the fundamentals of MS Office: Word and Excel. Students will become acquainted with the proper procedures to create documents and worksheets suitable for coursework, professional purposes and personal use.

Name of Course: Computer Applications II Length of Course: 20 Weeks  
Prerequisite: None (Keyboarding I recommended) Credits: 1/2  
Description: Computer Applications II is an introductory course that exposes students to the fundamentals of MS Office: PowerPoint and Access. Students will become acquainted with the proper procedures to create databases and presentations suitable for coursework, professional purposes and personal use.

Name of Course: Desktop Publishing Length of Course: 20 Weeks  
Prerequisite: Computer Applications (similar course) Credits: 1/2  
or permission of instructor  
Description: This one semester course provides a basic understanding of desktop publishing using MS Publisher. Students will change design and layout, work with fonts and styles, work with pictures and WordArt, create various publications, and create web and E-mail content. Students will utilize their creative talents, communication proficiency, and edit/proofreading skills.

Name of Course: Web Page Design Length of Course: 20 Weeks  
Prerequisite: None Credits: 1/2  
Description: This course is intended to introduce the novice or casual user to the world wide web. The course will begin with an overview of the Internet, terminology, history, and search engines. The question of Internet ethics will also be addressed. Microsoft Expression Web as well as other web design software packages will be used for web page design. Student will learn to design their own web pages

Name of Course: Microsoft Office Specialist (MOS) Length of Course: 20 Weeks  
(College Credit NCCC)

Prerequisite: None (Keyboarding I recommended) Credits: 1/2

Description: This course is a comprehensive certification program designed to validate desktop computer skills using Microsoft Office applications. MOS proves computer literacy, measures proficiency, improves productivity and identifies opportunities for skills enhancement. Students will have the option to earn a MOS certificate at the end of the course.

Name of Course: Internet and Computing Core Certification (IC3) Length of Course: 20 Weeks

Prerequisite: None (Keyboarding I recommended) Credits: 1/2

Description: The Internet and Computing Core Certification program is global, validated, standards-based training and certification program for basic computing and Internet knowledge and skills. Successful completion of IC3 ensures the student will have the knowledge and skills required for basic use of computer hardware, software, networks and the Internet. Students will have the option to earn IC3 certification after successful completion of the course.

# ENGLISH

The English Language Arts Program at Franklin Academy is designed to facilitate students' ability to write effectively, to read critically, and to develop a sense of (and relationship to) literature. Students will be college and career ready as they move through our program that integrates technology, develops independent learning strategies and a sense of the world around them while advancing their English skills.

Name of Course: Honors English Challenges (Grade 9) Length of Course: 40 weeks

Prerequisite: Any student may take on the Challenges. Credits: 1

Description: This course is the first of a two-year preparation for enrollment in the English 11 and 12 grade Advanced Placement courses. Students will be introduced to a variety of challenges based on English skill sets in the 21<sup>st</sup> century. Students will present the critical skills necessary to interpret, evaluate, and respond to literature. Students will read and write extensively in response to a variety of literary scenarios. Students will apply time management skills, self-advocacy skills, and organizational skills to already strong English skill sets in order to achieve in the Honors Challenges.

Name of Course: English 9 Length of Course: 40 weeks

Prerequisite: 9<sup>th</sup> Grade entry Credits: 1

Description: This course is the first in a three-year program to prepare students to complete New York State's Comprehensive Examination in English successfully. Students will study, practice, and develop fundamental writing skills, including basic methods of library research. This course emphasizes sentence structure as well as standard American conventions of grammar, punctuation, and spelling. Students will be introduced to representational works of the major genres and methods for reading and responding critically. Major readings may include: Great Expectations, Hoot, Animal Farm, The Call of the Wild, The Miracle Worker, And Then There Were None, and I Am the Cheese.

Name of Course: English 10 Honors Length of Course: 40 weeks

Prerequisite: Successful completion of Honors English Challenges Credit: 1

Description: This course is the second of a two-year preparation for enrollment in the English 11 and English 12 grade Advanced Placement courses. Students will continue to develop the critical skills for interpreting and evaluating literature from all literary genres. They will write in response to an analysis of essay prompts concerning their readings. Major readings may include: 1984, The Giver, The Catcher in the Rye, Our Town, Antigone, The Merchant of Venice, A Tale of Two Cities, The Tragedy of Romeo and Juliet, and Night.

Name of Course: English 10 Length of Course: 40 weeks

Prerequisite: Successful completion of English 9 Credits: 1

Description: This course is the second in a three-year program to prepare students to complete New York State's Comprehensive Examination in English successfully. Students will continue to read and study literature from all genres. They will write extensively in response to their readings, learning to adjust their structure, detail, and vocabulary according to purpose. Major readings may include 1984, A Tale of Two Cities, The Giver, The Merchant of Venice, Catcher in the Rye, Taming of the Shrew, Gentlehands, A Christmas Carol, Dragonflight, Gathering Blue, The Messenger, Cold River, Nineteen Minutes, Our Town, Tuesdays with Morrie, Snow Falling on Cedars, and White Fang.

Name of Course: English Language and Composition-  
Advanced Placement Length of Course: 40 weeks

Prerequisite: Successful completion of English Credits: 1  
10 Honors with a minimum 90 average or  
recommendation of 10<sup>th</sup> grade English Teacher.

Description: This course prepares students for the AP Examination in English Language and Composition that is administered in May. Students must pay for the exam; however, those qualifying for free/reduced lunch program may waive the exam free. Achieving a score of 3-5 on the exam can result in college credit. Students will write and read extensively and will be expected to perform at the college level. Students will study and write nine rhetorical styles, including exemplification, description, narration, division/classification, comparison/contrast, process analysis, cause/effect analysis, definition, and argument. Research and source-citation skills are integral to all writing tasks. Students will also read much of the English 11 fiction curriculum, including Lord of the Flies, The Scarlet Letter, To Kill a Mockingbird, The Adventures of Huckleberry Finn, The Great Gatsby, and Of Mice and Men.

Name of Course: English 11 Length of Course: 40 weeks

Prerequisite: Successful completion of English 10 Credits: 1

Description: This course is the third in a three-year program to prepare students to complete New York State's Comprehensive Examination in English successfully. The reading content of this course includes a survey of American authors and their works. This is a writing-intensive course that focuses on critical analysis of literary techniques, and the basic techniques of expository prose. Major readings may include The Adventures of Huckleberry Finn, The Crucible, The Scarlet Letter, To Kill a Mockingbird, The Great Gatsby, A Lesson Before Dying, Lord of the Flies, and Of Mice and Men.

Name of Course: English 12 Length of Course: 40 weeks

Prerequisite: Successful completion of English 11 Credits: 1

Description: English 12 consists of a study of world literature and an extensive series of expository writings. A variety of genres, such as poetry, epics, drama, short stories, novels and nonfiction, will be studied. The course offers many elements and skills that students will utilize after graduation, including rhetorical writing, note-taking, study skills, and reading comprehension.

Name of Course: English Literature (NCCC Literature Appreciation) Length of Course: 40 weeks

Prerequisite: Successful completion of English 11 Credits: 1

Description: This course is called "Literature Appreciation" at North Country Community College. It consists of reading many genres of literature from authors around the world and learning how to respond to these works verbally, as well as through writing. Responses will be required on both a personal and critical level. Through their reading experience, students will be exposed to ideas about the living world. Through class discussion, students will begin to form their own ideas about themselves and their place in the world. Through their writing, students will practice expressing their views using both creative and expository styles.

Name of Course: AP English 12 – Advanced Placement Literature and Composition Length of Course: 40 weeks

Prerequisite: Successful completion of AP English 11 Credits: 1  
is recommended with achieving at least a 3 on the exam.

Description: This course prepares students for the AP Examination in English Language and Composition. The test will be administered in May. Students must pay for the exam. Achieving a score of 3-5 on the exam can result in college credit. Students will write and read extensively and will be expected to perform at the college level. This course closely examines college level literature pieces at a rapid pace. It consists of reading many genres of literature from authors around the world and learning how to respond to these works verbally, as well as through writing. Responses will be required on both a personal and critical level. Through their reading experience, students will be exposed to ideas about the living world. Through class discussion, students will begin to form their own ideas about themselves and their place in the world. Through their writing, students will practice expressing their views using both creative and expository styles.

Please visit the following link for that actual course description per The AP College Board.  
<http://apcentral.collegeboard.com/apc/public/repository/ap-english-course-description.pdf>

# Health and Physical Education

Name of Course: Health

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: Health is a required course for graduation. Mixed classes of 9th-12th grade students learn about the importance of taking responsibility for their health. Making healthy decisions regarding a variety of health topics is promoted highlighting facts that support the message that choices teens make now can impact their future. Topics of classroom discussion involve analysis of risk factors for health problems and prevention information on drug abuse, relationship abuse, violence, teen pregnancy, and communicable disease, such as HIV/AIDS. Information on prevention of lifestyle diseases, such as cancer, heart disease, and diabetes are also part of classroom instruction. Reinforcement of the importance of positive communication and a variety of problem solving skills is included to aid students to become better health advocates. Guest speakers are invited to share their expertise with students and increase awareness of available community/school help resources.

Name of Course: Physical Education  
(Course 901 Personal Fitness)

Length of Course: 40 Weeks (2 times per six-day cycle) (Includes 10 weeks of Swimming classes- 3 days per cycle. See Swimming Classes Description.

Prerequisite: None

Credits: 1/2

Description: As the title implies, this course will present a wide array of topics related to health, physical activity, and fitness. Students will learn to assess their own fitness level, and based on this assessment be able to design their own personal fitness program. They will also learn how to maintain a desired level of fitness once they have reached an appropriate level. This course will consist of both classroom and movement based activities and will continue throughout the entire school year. Students will be expected to perform only at their own level. Every effort will be made to help each student recognize gains in his/her level of fitness and constant documentation will provide each student tangible proof of their achievements.

Name of Course: Swimming Level I (Water Exploration)

Length of Course: 10 Weeks  
(2 times per six-day cycle)

Prerequisite: None

Credits: See Phys. Ed.

Description: Skills: Adjustment to water; breath holding; rhythmic breathing; prone float and recovery, prone glide; back glide and recovery; prone glide with kick; back glide with kick; beginner stroke or front crawl-15 yds; wing and kick on back-15 yds., leveling off, jump into shallow water and swim; jump into deep water and swim, changing direction; turning over; safety information.



Name of Course: Swimming Level II (Primary Skills) Length of Course: 10 Weeks  
(2 times per six-day cycle)

Prerequisite: Completion of Level I Course Credits: See Phys. Ed.

Description: Skills: Bobbing in deep water; rhythmic breathing; float for 2 minutes; front crawl, 25 yds.; elementary backstroke, 25 yds.; survival stroke for 2 minutes; treading water; changing positions and treading water; standing front dive; underwater swimming; use of PFD; safety information.

Name of Course: Swimming Level III (Stroke Readiness) Length of Course: 10 Weeks  
( 2 times per six-day cycle)

Prerequisite: Completed Level II Credits: See Phys. Ed.

Description: Skills: Crawl, 100 yds., 4 lengths of pool; sidestroke, 100 yds.; breaststroke, 100 yds.; backcrawl, 100 yds.; overarm side, 50 yds.; trudgeon, 50 yds.; inverted breast, 50 yds.; turns; surface dives; survival float, 10 minutes; standing dive; racing dive; dive from diving board; 30 minute swim.

Name of Course: Swimming Level IV (Stroke Development) Length of Course: 10 Weeks  
(2 times per six-day cycle)

Prerequisite: Completed Level III Credits: See Phys. Ed.

Description: Skills: Deep-water bobbing; demonstration of rotary breathing; dive from the side of the pool from stride and standing positions; build endurance by swimming elementary backstroke, front crawl and elementary backstroke at increased distances; learn the basics of breaststroke, sidestroke, and turning at the wall; learn alternate kicks for treading water, learn rescue-breathing techniques; become familiar with CPR.

Name of Course: Swimming Level V (Stroke Refinement) Length of Course: 10 Weeks  
(2 times per six-day cycle)

Prerequisite: Swimming Level IV Credits: See Phys. Ed.

Description: Skills: Demonstration of alternate breathing; dive from diving board; demonstrate stride jump entry; demonstrate long-shallow dive; perform the front crawl, back crawl, elementary backstroke for increased distances; perform the sidestroke and the breaststroke and swim under water; perform open turn on front and back; learn the basic safety rules for diving from a board; recognize the signs of spinal injury; perform feet-first surface dive; learn the dolphin kick; increase endurance and skill in treading water.

Name of Course: Swimming Level VI Length of Course: 10 Weeks

(Skill Proficiency)

(2 times per six-day cycle)

Prerequisite: Completion of Level V

Credits: See Phys. Ed.

Description: Skills: Demonstrate approach and hurdle on diving board; demonstrate jump tuck from diving board; enhance ability to perform strokes introduced at previous levels; perform approach stroke; demonstrate breaststroke and sidestroke turns; speed turn and pullout for breaststroke; and flip turn for front crawl; perform tuck and pike surface dives; learn alternate kicks for treading water; demonstrate a throwing rescue; roll spinal injury victim face-up.

Name of Course: Swimming Level VII  
(Advanced Skills)

Length of Course: 10 Weeks  
(2 times per six-day cycle)

Prerequisite: Completion of Level VI

Credits: See Phys. Ed.

Description: Skills: Incorporating Learn-To-Swim skills and activities into lifetime fitness habits; perform springboard dives in tuck and pike positions, swim continuously for 500 yds. using any combination of strokes; perform backstroke flip turn; perform in-water rescue using equipment; become aware of conditioning principles; check heart rate; retrieve diving brick from 8-10 feet of water; review Basic Water Safety skills; tread water for 5 minutes; assist with back-board rescue; explore alternative aquatic activities.

Name of Course: Life Guarding

Length of Course: 20 Weeks (5x week)

Prerequisite: Passed their 15th birthday, should be able to perform the following skills: Standing front dive, swim 500 yds., 20 lengths of the pool, crawl side, elementary back, breaststroke; surface dive to a depth of 8 feet, swim 20 ft. underwater, treading 1 minute

Credits: 1/2

Description: Skills taught include preventative lifeguarding, equipment, types of emergencies; rescue fundamentals; rescues; snorkeling skills; search and recovery operations; spinal injury management; special situations; reports and record keeping; weather and environmental conditions; requirements and responsibilities of a Lifeguard.

Name of Course: Water Safety Instructor

Length of Course: 20 Weeks (5x week)

Prerequisite: Level VI swimming ability (must pass pretest demonstrating these skills)  
Pass a 25 question pretest on Basic Water Safety  
Age 16 by the end of the class

Credits: 1/2

Description: Trains individuals to become American Red Cross Water Safety Instructors. Class includes teaching methods, stroke and skill analysis, lesson planning, class organization, and, practice instruction. Upon completion students will be certified to teach "Learn to Swim Levels 1-VII and Basic Water Safety Courses".

# LANGUAGES OTHER THAN ENGLISH

Name of Course: French 1 Length of Course: 40 Weeks

Prerequisite: None Credits: 1

Description: French I/ French to Work focuses on beginning speaking, writing, reading, and listening skills. The emphasis is learning to communicate on an elementary level in French. Topics generally presented are: greetings, identification, description, school, family, numbers, colors, foods, activities, sports, animals, travel, parties, houses, camping, shopping, parts of the body, festival days, the city, elementary grammatical structures and verb forms, and general cultural themes. Although some English is spoken; an attempt is made to speak French as much as possible. This course focuses on speaking and listening skills. A more practical and vocational course, it covers areas for those interested in work and business fields where knowing how to speak French is/may be mandatory. The culture of Francophone area, especially Canadian is highlighted. This course will enable students to interact with Francophones in the work place. Many French games are played as a means of reinforcement and review. Basic grammar, including the present tense is taught. Cultural information of francophone area is included.

Name of Course: French II  
NYS Checkpoint B (1st half) Length of Course: 40 Weeks

Prerequisite: French I Credits: 1

Description: French II continues from French I with the material arranged by topic and as much as possible geared to students' interest and age level. Grammar presentations review previous materials and provide more in-depth analyses. The past tense is covered. Where possible computer software is used for reinforcement. Francophone areas are the topic of the cultural presentations. French II covers the first half of Checkpoint B.

Name of Course: French II Honors  
NYS Checkpoint B (1st half) Length of Course: 40 Weeks

Prerequisite: French I and recommendation of teacher Credits: 1

Description: French II Honors is a rigorous course for the highly motivated student. It is an intensive study of curriculum topics which incorporate the four language skills including reading, speaking, listening and writing. This course will cover the French II curriculum in a more extensive and detailed manner.

Name of Course: French III NYS Checkpoint B (2nd half) Length of Course: 40 Weeks

Prerequisite: French II Credits: 1

Description: The course will enable students to understand standard speech, eventually that of a native speaker. Students will be able to use more complex verb tense forms. Students can sustain moderately long conversations although with some difficulty. Students will read factual information as well as textual topics relating to areas of special interest. Students will be exposed to culture and French behaviors such that there is appreciation for and understanding of the French people. Students will compose unified, organized texts on everyday topics.

Name of Course: French III Honors (NCCC Credit- French 101) NYS Checkpoint B (2nd half) Length of Course: 40 Weeks

Prerequisite: French II and recommendation of teacher Credits: 1

Description: French III Honors is a rigorous course for the highly motivated student. It covers all topics listed in French III. However, these topics will be covered in greater depth with emphasis on applying the grammatical concepts.

Name of Course: French IV (NCCC Credit- French 102) NYS Checkpoint C Length of Course: 40 Weeks

Prerequisite: French III Credits: 1

Description: Students will increase their listening skills such that French television is comprehensible. Students will be encouraged to carry on lengthy conversations and presentations in French. There will be several short stories, poetry, and novels read which will introduce students to French literature and cultural values as well as improve their reading ability. Students will write essays, critiques and stories in French with some competency. The general atmosphere of this level is informal and conversational. Debates will be incorporated so that students can express their feelings and opinions.

Name of Course: French V (NCCC Upper Level Credit French 201) NYS Checkpoint C Length of Course: 40 Weeks

Prerequisite: French IV Credits: 1

Description: Students will experience listening to native speakers not only on television and radio but also in more lengthy contexts such as movies and plays. Students will be expected to carry on all classroom communication competently in French. Students will read several major works of literature and will discuss and write about their reactions in essays and term papers. This level is again informal, conversational, but directed toward serious discussion of literary topics as well as everyday subjects. Application of checkpoint C grammar points is expected.

Name of Course: Basic Spanish  
NYS Checkpoint A

Length of Course: 40 Weeks

Prerequisite: None

Credits: 1

Description: Spanish to Work focuses on beginning speaking, writing, reading and listening skills. The emphasis is learning to communicate on an elementary level in Spanish. Topics generally presented are: greetings, identification, description, school, family, activities, numbers, colors, sports, animals, travel, parties, houses, camping, shopping, parts of the body, festival days, the city, elementary grammatical structures and verb forms and general cultural themes.

Name of Course: Spanish II  
NYS Checkpoint B (1st half)

Length of Course: 40 Weeks

Prerequisite: Spanish I

Credits: 1

Description: Spanish II continues from Spanish I with the material arranged by topic and as much as possible geared to students' interest and age level. Grammar presentations review previous materials and provide more in-depth analyses. The past tense is covered. Where possible computer software is used for reinforcement. Spain is the topic of the cultural presentations. Spanish II covers the first half of Checkpoint B.

Name of Course: Spanish II Honors  
NYS Checkpoint B (1<sup>st</sup> half)

Length of Course: 40 Weeks

Prerequisite: Spanish I

Credits: 1

Description: Spanish II Honors is a rigorous course for the highly motivated student. It is an intensive study of curriculum topics which incorporate the four language skills including speaking, listening, reading and writing. This course will cover the Spanish II curriculum in a more extensive and detailed manner.

Name of Course: Spanish III (NYS Checkpoint B)

Length of Course: 40 Weeks

Prerequisite: Spanish II

Credits: 1

Description: A complete review of the language starts with the present tense. Authentic materials are used for reading. Visual materials are used for vocabulary accumulation. Computer software provides review. This course continues with Checkpoint B of the NYS Syllabus. Spanish only is spoken in class. Cultural presentations focus on Latinos in the U.S., Mexico, Caribbean and Costa Rica.

Name of Course: Spanish III Honors (NCCC–Spanish 101) Length of Course: 40 Weeks

Prerequisite: Spanish II Credits: 1

Description: Spanish III Honors is a rigorous course for the highly motivated student. It covers all topics listed in Spanish III. However, these topics will be covered in greater depth with emphasis on applying the grammatical concepts.

Name of Course: Spanish IV (NYS Checkpoint B)  
(NCCC Spanish 102) Length of Course: 40 Weeks

Prerequisite: Spanish III Credits: 1

Description: The primary objective of Spanish IV is to improve all communicative skills. This is obtained by a variety of projects such as: readings, research projects, treasure hunts, debates, discussions, games, movies, slides, tapes, music, and computers. Direct contact with media from Hispanic countries, foreign exchange students and cultural materials are provided whenever possible. Authentic videos are watched, authentic short stories are read and interpreted and an in-depth preparation for Spanish V is achieved. Students study the culture of South and Central America.

Name of Course: Spanish Composition and Literature  
(NYS Checkpoint C)  
(NCCC Spanish 201) Length of Course: 40 Weeks

Prerequisite: Spanish IV or Spanish III and  
recommendation of teacher Credits: 1

Description: This course will include intensive grammar review. Because this honors course expects students to comprehend and produce language equivalent to the second-year college level, students must have sound preparation, a high level of motivation and interest, and sufficient time to prepare out-of-class reading and writing assignments. Students *must* be willing to devote the time required to be successful. In order to be successful, they must hear, read, speak and write *exclusively* in Spanish in this class.

Name of Course: Spanish V (SLU Spanish 104) Length of Course: 40 Weeks

Prerequisite: Spanish IV or Spanish AP Credits: 1

Description: This college-level advanced Spanish consists of the reading and interpretation of the works of several Spanish and Latin-American authors. Comprehension will be promoted by the exclusive use of Spanish in the classroom. Authentic newspapers, magazines, and videos will be used to enhance comprehension. Speaking exercises will be aimed at improving oral proficiency. There will be a significant number of writing exercises and grammatical activities as necessary to improve writing skills. Two days of immersion at St. Lawrence University are required. Registration fee for St. Lawrence University is \$75. An extensive portfolio is required and submitted to the Modern Languages and Literature Department at St. Lawrence University as a final evaluation.

Name of Course: Spanish for the Health Professions                      Length of Course: 20 Weeks

Prerequisite: Senior with at least Spanish 2 experience              Credits: 1/2

Description: This course is intended for a Spanish student who is interested in a career in the medical/health field. It will focus on vocabulary related to the health professions with a strong emphasis in building fluency in Spanish. This course is designed to provide students with the specific medical vocabulary and terminology necessary to communicate with and help treat Latino patients with limited English proficiency. It will include specific vocabulary groups relating to assessment and care of patients, vocabulary to establish rapport, discussions leading to cultural competencies. This course will use pre-designed dialogues to review and learn vocabulary and grammar structures, as well as workshop settings designed to put students into scenarios where they can use both their speaking and listening skills. Most of the course will be taught in Spanish and because this is an Intermediate course, students will be expected to have taken Spanish and retained basic conversational abilities.

Name of Course: Spanish for the Legal Professions and Law Enforcement                      Length of Course: 20 Weeks

Prerequisite: Spanish IV or Spanish IV Honors                      Credits: 1/2

Description: This course is intended for a Spanish student who is interested in a career in law enforcement, such as State Police, Border Patrol, Corrections, Customs and Immigration. It is a practical study of Spanish that will focus on vocabulary related to legal professions & law with a strong emphasis in building fluency, in Spanish in all four skills: listening, speaking, reading and writing. Emphasis is placed on developing Spanish language skills and cultural understanding through activities and role play related to application in the field of law enforcement. The course will use pre-designed dialogues to review and learn vocabulary and grammar structures, as well as workshop settings designed to put students into scenarios where they can use both their speaking and listening skills. Most of the course will be taught in Spanish and because this is an Intermediate course, students will be expected to have taken Spanish and retained basic conversational abilities.

Name of Course: Sign Language I                      Length of Course: 40 Weeks

Prerequisite: None                      Credits: 1

Description: This course will help the student develop an understanding of basic sign language. Sign Language is a complex visual-spatial language that is used by the Deaf community in the United States and English-speaking parts of Canada. It is a linguistically complete natural language. It is the native language of many Deaf men and women, as well as some hearing children born into Deaf families.

Sign Language has a very complex grammar. Unlike spoken languages where there is just one serial stream of phonemes, sign languages can have multiple things going on at the same time. This multiple segmentation makes it an exciting language for linguists to study and a frustrating language for Deaf-impaired (aka, hearing) people to learn. Sign Language has its own morphology (rules for the creation of words), phonetics (rules for hand shapes), and grammar that are very unlike those found in spoken languages. Sign languages promise to be a rich source of analysis for future linguists to come.

Name of Course: Sign Language II

Length of Course: 40 Weeks

Prerequisite: Sign Language I

Credits: 1

Description: American Sign Language 2 is a continuation of ASL 1. Instruction is a more advanced study of ASL fundamentals. Students will expand their receptive and expressive fingerspelling, vocabulary, and grammar skills to a more functional conversational level. They will increase their awareness of Deafness and Deaf Culture. Students will be given more opportunities for conversation in ASL (without voicing). They will be expected to demonstrate their sign skills through various expressive projects. Students will also have more opportunities to use their sign skills with native signers.



# MATH

Name of Course: Algebra Length of Course: 40 Weeks

Prerequisite: Successful completion of 8th grade mathematics (Pre-Algebra) Credits: 1

Description: Topics studied are a Common Core approach to Algebra. Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, algebra, and data analysis. The Common Core Algebra regents is the final exam in this course.

Name of Course: Algebra A Length of Course: 40 Weeks

Prerequisite: Successful completion of 8th grade mathematics (Pre-Algebra) Credits: 1

Description: Algebra A is designed for students who need additional time to master the skills and objectives of Common Core Algebra . The basic algebra skills are covered and reinforced. It is the first year of the two year program.

Name of Course: Algebra B Length of Course: 40 Weeks

Prerequisite: Successful Completion of Algebra A Credits: 1

Description: This course is a continuation of Algebra A. All necessary skills and objectives are studied by the conclusion of this course. The Common Core Algebra Regents exam is the final exam for this course. This is the 2<sup>nd</sup> year of the two year Algebra program.

Name of Course: Geometry Length of Course: 40 Weeks

Prerequisite: Successful Completion of Common Core Algebra with a grade of 75 on the regents or teacher recommendation Credits: 1

Description: Geometry is the study of reasoning beginning with definitions, postulates and the laws of reasoning. The students will learn to apply the laws of logic to traditional deductive proofs in geometry, both direct and indirect. Traditional synthetic geometry, coordinate geometry transformations, concurrence theorems, solid geometry and algebraic skills. The Common Core Geometry regents is the final exam in this course.

Name of Course: Elements of Geometry Length of Course: 40 Weeks

Prerequisite: Successful Completion of Algebra or Algebra B and completion of the Common Core Algebra Regents Credits: 1

Description: Geometry is the study of reasoning beginning with definitions, postulates and the laws of reasoning. The students will learn to apply the laws of reasoning in Algebraic and practical situations. Traditional, synthetic geometry, coordinate geometry and transformational geometry is integrated throughout the text. Specific topics studied are coordinate geometry, transformations, concurrent theorems, solid geometry and algebraic skills. Proofs will not be studied in this course. There is a final exam in this course but not regents.

Name of Course: Geometry Honors Length of Course: 40 Weeks

Prerequisite: Successful Completion of Algebra Common Core 8<sup>th</sup> grade with at least an 85 on the Algebra CC Regents or teacher recommendation Credits: 1

Description: Geometry is the study of reasoning beginning with definitions, postulates and the laws of reasoning. The students will learn to apply the laws of logic to traditional deductive proofs in geometry, both direct and indirect. Traditional synthetic geometry, coordinate geometry transformations, concurrence theorems, solid geometry and algebraic skills. The Geometry Common Core regents is the final exam in this course.

Name of Course: Algebra II / Trigonometry Length of Course: 40 Weeks

Prerequisite: Successful completion of Geometry and Algebra with a grade of at least a 75 on **both** regents or teacher recommendation Credits: 1

Description: This is an integrated approach which builds and connects each concept. The primary emphasis is on operations, variables and expressions, equations and inequalities, trigonometric functions, patterns, functions and relations, coordinate geometry measurement, probability and statistics. Problem solving is emphasized throughout the course. The graphing calculator is used as a routine mathematical tool. The Trigonometry regents is the final exam in this course.

Name of Course: Elements of Algebra II / Trigonometry Length of Course: 40 Weeks

Prerequisite: Geometry or Elements of Geometry Credits: 1

Description: The topics will be similar to Algebra II / Trigonometry but at a slower pace, stressing the practicality of Algebra and trigonometry. A preparatory course for students going to college but weak in math.

Name of Course: Algebra II / Trigonometry Honors

Length of Course: 40 Weeks

Prerequisite: Passing Geometry course with at least an 85 on the Algebra and Geometry Common Core regents

Credits: 1

Description: This is an integrated approach which builds and connects each concept. The primary emphasis is on operations, variables and expressions, equations and inequalities, trigonometric functions, patterns, functions and relations, coordinate geometry measurement, probability and statistics. A graphing calculator is required for this course.

Name of Course: Pre-Calculus Mathematics

Length of Course: 40 Weeks

Prerequisite: Algebra II / Trigonometry and passing the Algebra II / Trigonometry regents

Credits: 1

Description: This course covers topics in advanced mathematics which will prepare a student for calculus. Topics covered include matrices, functions, trigonometry, and limits. A graphing calculator is needed for this course.

Name of Course: Pre-Calculus Honors

Length of Course: 40 Weeks

Prerequisite: Algebra II / Trigonometry and the regents with an overall average of 80

Credits: 1

Description: This is an in depth curriculum with the purpose of preparing students for a course in AP or College Calculus. Topics covered include matrices, functions, trigonometry, and limits. A graphing calculator is needed for this course.

Name of Course: Statistics

Length of Course: 40 Weeks

Prerequisite: Algebra II / Trigonometry

Credits: 1

Description: Statistics is a course that deals with the collection, classification, analysis interpretation of information or data, drawing conclusions, and making predictions based on the data. It is appropriate for students pursuing majors in a wide variety of disciplines ranging from social sciences of psychology and sociology to areas such as education, the allied health fields, business, economics, engineering, the humanities, the physical sciences, journalism, communications, and liberal arts.

Name of Course: Calculus (College Credit Paul Smiths)

Length of Course: 40 Weeks

Prerequisite: Pre-Calculus

Credits: 3 College Credits

Description: Calculus is a course in which mathematical relationships between variable quantities are explored. It is a tool of fundamental significance in all areas of science, engineering and applied mathematics. Included are basic concepts and transcendental functions of limits and continuity, differentiation of algebraic functions, implicit differentiation of algebraic functions, application of derivatives to curve sketching, related rates and maximum/ minimum problems, Riemann sums (indefinite integral) and the definite integral, and applications of integration to areas. This course allows for the use of a graphing calculator.

Name of Course: AP Calculus AB

Length of Course: 40 Weeks

Prerequisite: Final Average of 90% or greater in Algebra, Geometry, Algebra 2/ Trigonometry, and Pre-Calculus

Credits: 3 College Credits

Description: Calculus AB is primarily concerned with developing students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically and verbally.

AP courses in Calculus consist of a full high school academic year of work and are comparable to Calculus courses in colleges and universities. It is expected that students who take an AP course in Calculus will seek college credit, college placement, or both from institutions of higher learning.

AP Calculus AB represents college-level mathematics for which most colleges grant advanced placement and/or credit. Most colleges and universities offer a sequence of several courses in calculus, and entering students are placed within this sequence according to the extent of their preparation, as measured by the results of an AP Exam or other criteria. Appropriate credit and placement are granted by each institution in accordance with local policies. Many colleges provide statements regarding their AP policies in their catalogs and on their websites.

Success in AP Calculus is closely tied to the preparation students have had in courses leading up to their AP courses. Students should have demonstrated mastery of material from courses that are the equivalent of four full years of high school mathematics before attempting Calculus. (College Board AP-Calculus AB/BC Course Description-Effective Fall 2012)

Name of Course: Introduction to Mathematical Concepts  
(College)

Length of Course: 40 Weeks

Prerequisite: 12<sup>th</sup> Grade status

Credits: 3 College Credits

Description: A study of mathematical concepts for high school seniors intended as preparation for college mathematics. Topics included are drawn from several areas of mathematics: algebra, geometry, financial mathematics, and an introduction to statistics. There will be attention to applications throughout the semester. At the conclusion of this course, the student will be able to:

1. Demonstrate knowledge and ability to perform basic arithmetic manipulations.
2. Apply algebraic techniques to real-world problems.
3. Exhibit knowledge of ratios, proportions and their applications.
4. Display a competency of geometry including angle relationships and polygon formulas.
5. Demonstrate an ability of using introductory statistics as a means of analyzing data.
6. Apply his/her knowledge of financial topics to both personal and professional instances

# MUSIC

Name of Course: Concert Choir

Length of Course: 40 Weeks

Prerequisite: Audition

Credits: 1

Description: Acceptance is based on audition; previous choral experience is recommended, but not required. Students are taught music reading skills and basic vocal techniques. Music is learned in four parts: soprano, alto, tenor, and bass. Two evening concerts and two in-school assemblies are scheduled and students are required to participate. In addition, it is possible that the choir will participate in out-of-town festivals or performances. A variety of music is performed using an overall vocal repertoire. Students complete a sectional singing test each semester; one written assignment each semester and a solo or ensemble performance for each other at the end of the year. Students must attend one sectional rehearsal each week. Quarterly grades are determined using the above as well as teacher evaluation on student participation. Considered in the teacher evaluation is musicianship, attendance, attention, participation, enthusiasm, loyalty, good citizenship, and leadership.

Name of Course: Swinging Sounds

Length of Course: 40 Weeks

Prerequisite: Membership in Concert Choir or Band  
Audition required

Credits: 1/2

Description: Acceptance is based on an audition; however, in order to audition, a student must be a member of the Band or Chorus unless their schedule does not allow. Music performed includes: pop, rock, show, jazz, and Dixieland. Swinging Sounds is considered a "show choir." This means that in addition to singing, students perform their music with choreography. Students are encouraged to participate in the planning of choreography. Swinging Sounds meets Wednesday evening from 6:00-8:00pm. In addition, students are required to attend one-in-school sectional per week. Performances include two evening concerts, two in-school assemblies, and performances at local service clubs, area clinics, and festivals.

Name of Course: Music In Our Lives I

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: Explore how music affects our daily lives and improve perceptive listening skills. Participate in units of study such as beat, rhythm, and the staff, to enhance music reading skills Students will also develop instrumental skills on guitar and percussion instruments. Computer technology may be used to develop music reading and playing skills.

Name of Course: Music In Our Lives II Length of Course: 20 Weeks

Prerequisite: Music In Our Lives I Credits: 1/2

Description: Students will continue to explore how music affects our daily lives. Additional units of study include: perceptive listening, a survey of Western classical music, non-Western music and the role of music in early civilizations as well as today.

Name of Course: Music Theory Length of Course: 40 Weeks

Prerequisite: 1 credit of Band or Choir  
Private piano instruction  
Permission of Instructor Credits: 1

Description: Music Theory focuses on the fundamentals of music in a comprehensive musicianship approach. Students will learn how music is put together, how it “works”, and how the elements of music interrelate to form musical compositions. Students will perform, create, read, write, analyze, transpose, and harmonize music. Students will use computer technology as a tool to aid in these music experiences.

Name of Course: Symphonic Band Length of Course: 40 Weeks

Prerequisite: Enrollment in Instrumental Program Credits: 1

Description: Membership in the symphonic band is open to all who satisfactorily completed the previous year of instruction in Instrumental Music. Transfer students must audition. Each member must attend all regularly scheduled rehearsals. Seating in the band is based on the student’s ability as determined by audition and by the needs of the Band itself. Along with the group experience, a small group lesson requirement is required to complete the course.

Name of Course: Wind Ensemble Length of Course: 40 Weeks

Prerequisite: Auditions Credits: 1

Description: Acceptance is based on audition. The Director selects the members of this group based on instrumentation needs from the Symphonic Band and on occasion from the Advanced Band at the Middle School. Transfer students must audition. Each member must attend all regularly scheduled rehearsals. Seating in the Wind Ensemble is based on the student’s ability and by the needs of the group. Along with the group experience, a small group lesson requirement is required to complete the course.

Name of Course: Jazz Ensemble

Length of Course: 40 Weeks

Prerequisite: Participation in Symphonic Band  
or Wind Ensemble AND an audition

Credits: 1

Description: The director selects the members of this Band from the Symphonic Band and wind Ensemble Personnel based on a performance and an audition given in September. Once a student accepts the invitation to join the Jazz Ensemble he/she is expected to attend ALL rehearsals and performances. Their performance, attitude and conduct should be the same as that in the Symphonic Band or Wind Ensemble. The Jazz Ensemble studies the styles of jazz, rock, jazz-rock, Latin, blues and improvisation. The Jazz Ensemble meets once weekly, in the evening, for two and one-half hours.



# SCIENCE

The 1200 minute laboratory experience and the laboratory performance test are required by the NYSED to qualify to take any Science Regents exam. Students must complete satisfactory written lab reports as a prerequisite for admission to the Regents exam.

Name of Course: Earth Science

Length of Course: 40 Weeks  
(2 double period labs per cycle)

Prerequisite: Enrolled in Algebra or Algebra A or have passed Algebra in 8th grade. Recommendation of 8th grade Science Teacher, or passed Living Environment B

Credits: 1

Description: This laboratory course is designed to encourage students to investigate their world through first-hand experiences. Major earth system concepts are developed through problem-solving approaches using various specifically designed models and materials. Students must be able to critically analyze data using scientific methods to arrive at sound conclusions. Students often work in groups and must demonstrate the ability to work with others toward a common goal. This course meets the following state standards:  
-process skills 1, 2, 6, and 7  
-all key ideas included in standard 4

Name of Course: Living Environment Honors

Length of Course: 40 Weeks

Prerequisite: Must have passed Earth Science Regents in 8<sup>th</sup> Grade with at least an 85 course average.

Credits: 1

Description: This course covers all the topic areas of Living Environment A. In addition, there is in depth coverage of biochemistry and molecular genetics.

Name of Course: Living Environment (Biology) A

Length of Course: 40 Weeks

Prerequisite: Passing grade on the Earth Science Regents

Credits: 1

Description: This course is centered around the six themes of the New York State Living Environment core curriculum. These themes include (1) evolution, (2) energy, matter, and organization, (3) maintaining a dynamic equilibrium, (4) growth, reproduction, and development, (5) genetics and molecular biology, (6) interaction and interdependence.

Name of Course: Living Environment (Biology) B Length of Course: 40 Weeks

Prerequisite: Passed 8<sup>th</sup> grade Science, Credits: 1  
or Science Skills

Description: This course is centered around the six themes of the New York State Living Environment core curriculum. These themes include (1) evolution, (2) energy, matter, and organization, (3) maintaining a dynamic equilibrium, (4) growth, reproduction, and development, (5) genetics and molecular biology, (6) interaction and interdependence.

Name of Course: Environmental Science Length of Course: 40 Weeks

Prerequisite: Students will have successfully Credits: 1  
completed two lab science courses and  
will have passed one Regents science exam.

Description: This course is designed as a 3<sup>rd</sup> year of science course for students whom have successfully completed two Regents science courses with the required labs. Students will draw on past knowledge and current events to research Environmental Problems that our society is facing. The class will operate as a company which will come up with possible solutions to these problems. Students will present their solutions to the class.

Name of Course: Bioethics Length of Course: 40 Weeks

Prerequisite: Students will have successfully Credits: 1  
completed two lab science courses and  
will have passed one Regents science exam.

Description: This course is designed to confront the collision of personal morals, societal ethics, technology, and science. Students are introduced to the idea of debate vs. dialog, justice, creating logical arguments, and empathy for others. This course is designed to increase critical thinking skills, improve verbal and written skills, allow students to do research with a purpose, and to appreciate that ethical issues are disagreed on. Few issues in the "real world" are black and white.

Name of Course: Forensic Science

Length of Course: 40 Weeks

Prerequisites: Successful completion of Living Environment with satisfactory performance on the Living Environment Regents Exam. A strong recommendation exists the students have taken and passed a chemistry course.

Credits: 1

Description: The course is designed to provide the student with an overview of the methods and practices of forensic science, as well as to build the scientific background needed to understand how the investigation of a crime is carried out both forensically and from a law enforcement perspective. Students will be exposed to a variety of laboratory techniques used in forensic labs with hands-on opportunities where possible. Students will be encouraged to utilize a variety of electronic information searching methods. Students will develop writing and speaking skills while building on the capacity for inquiry and cooperation. When possible, forensic, law enforcement and legal professionals will be utilized in the classroom to enrich discussion. When possible, students will travel on-site to various facilities to observe law enforcement and forensic analysis in action.

Name of Course: Chemistry Honors

Length of Course: 40 Weeks

Prerequisite: Minimum of 85 average in Living

Credits: 1 (Weighted grade)

Environment Honors. Minimum grade of 75 on Integrated Algebra Regents Exam. Students not typically accelerated are eligible to take this course and should see an instructor to discuss eligibility.

Description: All topics listed in Regents Chemistry will be covered. All topics are covered in greater depth with emphasis on problem solving skills. All students must meet Regents lab requirements and will take the Chemistry Regents Exam. The SAT II in Chemistry can be substituted for the Regents exam.

Name of Course: Regents Chemistry

Length of Course: 40 Weeks

Prerequisite: Minimum of 75 average on Regents Biology exam. Passing grade on Integrated Algebra Regents exam.

Credits: 1

Description: Material covered will include atomic structure, nuclear chemistry, Periodic Table, matter and energy, acids and bases, kinetics and equilibrium, oxidation and reduction, organic Chemistry and lab skills. All students must meet Regents lab requirements and will take the Chemistry Regents Exam. The SAT II in Chemistry can be substituted for the Regents exam.

Name of Course: Chemistry B

Length of Course: 40 Weeks

Prerequisite: Passed Living Environment course.

Credits: 1

Description: This is a general chemistry course designed to introduce students to how chemistry is used in the “real” world. Students will be encouraged to learn through hands-on activities. A local final will be given. Students will not meet the Regents exam eligibility for chemistry by taking this course.

Name of Course: Physics A (NCCC Credit)

Length of Course: 40 Weeks

Prerequisite: Completed Regents level Science Courses such as: Earth Science, Biology, Chemistry Regents levels. Algebra and Geometry A.

Credits: 1

Description: Physics A is a Core based physics program for students intending to pursue a four-year college degree or a two-year degree in a technical field. This course is an inquiry-based program designed to focus on student understandings, mathematical relationships, processes, mechanisms, and the application of concepts. Students will be able to provide explanations in their own words, exhibiting creative problem solving, reasoning, and informed decision making. The core curriculum is supplemented with topics selected to prepare students to be successful in a four-year academic program.

Name of Course: Physics Honors (NCCC Credit)

Length of Course: 40 Weeks

Prerequisite: Academically motivated students who have completed Regents A courses in Earth Science, Biology, Chemistry Algebra, Geometry and Trigonometry

Credits: 1

Description: Honors Physics is a Core based physics program for highly motivated students. This course is an inquiry-based program designed to focus on student understandings mathematical relationships, processes, mechanisms, and the application of concepts. Students will be able to provide explanations in their own words, exhibiting creative problem solving, reasoning, and informed decision making. The course is an extension of the Physics A course including historical context, applications and scientific inquiry.

A student completing Honors Physics is expected to take the Physics Regents Exam.

Name of Course: AP Physics C Mechanics

Length of Course: 40 Weeks

Prerequisite: Academically motivated students who have completed Regents A courses in Earth Science, Biology, Chemistry Algebra, Geometry, Trigonometry and Pre-Calculus

Credits: 1

Description: The AP Physics course provides a systematic introduction to the main principles of physics and emphasizes the development of problem solving ability. It is assumed that the student is familiar with algebra and trigonometry. The B course provides a foundation in physics for students planning careers in the life science, pre-medicine and some applied sciences, as well as other fields not directly related to science. Students intending to pursue physics or engineering would benefit as well from this course. The Regents Physics A course is a subset of the AP Physics B course and therefore the AP Physics B course could take the place of the traditional Regents Physics course for these students. A student completing the AP Physics B is expected to take the Physics Regents Exam in addition to the AP exam.

In some circumstances, students who have completed Regents Physics will be permitted to take AP Physics B as an independent study.

Name of Course: AP Biology

Length of Course: 40 weeks

Prerequisites: Any Junior or Senior that achieved an 85 or above on the Living Environment Regents, and successful completion of Chemistry and the Chemistry Regents exam.

Credits: 1

Description: This course provides students with a broad overview of the philosophical foundations and scope of organism-scale biological science. Students will become familiar with much of the great diversity of life on Earth, the fundamental principles of animal and plant anatomy, physiology, reproduction, and development.

Name of Course: Epidemiology: Nasty diseases that have plagued humanity.

Length of Course: 40 Weeks

Prerequisite: Completion of Global History and US History  
Completion of 2 Regents Science Classes

Credits: 1

Description: A yearlong problem-based research course offering elective credit in history and science. This course will delve into various diseases including bubonic plague and influenza that have changed history. Epidemiology gives the student a chance to apply their science and math skills to understanding the basics of epidemics. This course also offers an interesting historical understanding of how the study of disease began and emerged into today's cutting edge organizations including the Centers for Disease Control and the World Health Organization. The primary method of learning will be research utilizing critical thinking skills. There will be a culminating research project/presentation instead of a written final exam.

# SOCIAL STUDIES

Name of Course: Global History & Geography 9 (Honors)      Length of Course: 40 Weeks

Prerequisite: Recommendation from 8<sup>th</sup> Grade Social Studies Teacher, 90 average in 8<sup>th</sup> Grade Social Studies.      Credits: 1

Description: Global History and Geography Honors is a rigorous two-year comprehensive course covering the culture and history of the world with the exception of the United States. The course is set up to provide honor students with the opportunity to study other nations and their cultures within a framework that is designed to develop a global perspective. Our goal is to cultivate in students' knowledge, skills, and attitudes needed to function effectively in a world characterized by ethnic diversity and increasing independence. The course is reading and writing intensive with multiple projects assigned.

A chronological order of the following areas of study are included as part of the 9th grade level of study from early civilization to early modern times (circa 1500)

Culture- General Concepts	Indian Subcontinent	The Middle East
China	Africa	Japan
Latin America	Southeast Asia	Europe

This course is designed to prepare the student for the United States History (Advanced Placement) available during the Junior Year of high school.

Name of Course: Global History & Geography 9 (A&B)      Length of Course: 40 Weeks

Prerequisite: Successful completion of Grade 8 Social Studies      Credits: 1

Description: Global History and Geography is a two year comprehensive course covering the culture and history of the world with the exception of the United States. The course is set up to provide students with the opportunity to study other nations and their cultures within the framework that is designed to develop a global perspective. Our goal is to cultivate in students knowledge, skills, and attitudes needed to function effectively in a world characterized by ethnic diversity and increasing independence. The B level course contains methods and strategies that are geared toward helping to meet the needs of those students who may have difficulty with more traditional classroom teaching styles.

A chronological order of the following areas of study are included as part of the 9th grade level of study from early civilization to early modern times (circa 1500)

Culture- General Concepts	Indian Subcontinent	The Middle East
China	Africa	Japan
Latin America	Southeast Asia	Europe

Name of Course: Global History & Geography 10 (Honors)      Length of Course: 40 Weeks

Prerequisite: 9th Grade Honors & minimum average  
of 90 in Global 9 Honors or      Credits: 1  
recommendation of the Global 9A teacher

Description: Global History and Geography is a rigorous two year comprehensive course covering the culture, history, and geography of the world with the exception of the United States. The course is set up to provide honor students with the opportunity to study other nations and their cultures within the framework that is designed to develop a global perspective. Our goal is to cultivate in students knowledge, skills and attitudes needed to function effectively in a world characterized by ethnic diversity and increasing interdependence. The material covered begins with 1500 A.D. to the present day. Class assignments are reading and writing intensive. Students will need to think and reason analytically. In June, the student will be required to pass a Regents Exam comprised equally of ninth and tenth grade material.

This course is also designed to prepare students for the United States History  
(Advanced Placement) available during their Junior Year of high school.

Name of Course: Global History & Geography 10 (A&B)      Length of Course: 40 Weeks

Prerequisite: Global History 9      Credits: 1

Description: Global History and Geography is a two year comprehensive course covering the culture, history, and geography of the world with the exception of the United States. The course is set up to provide students with the opportunity to study other nations and their cultures within the framework that is designed to develop a global perspective. Our goal is to cultivate in students' knowledge, skills, and attitudes needed to function effectively in a world characterized by ethnic diversity and increasing independence. The material covered begins with 1500 A.D. to the present day. In June, the student will be required to pass a Regents Exam comprised equally of ninth and tenth grade material. The B level course contains methods and strategies that are aimed toward helping to meet the needs of those students who may have difficulty with more traditional classroom teaching skills.

Name of Course: United States History & Government  
Advanced Placement      Length of Course: 40 Weeks

Prerequisite: 90 Average in Global History 10 Honors;      Credits: 1  
At least a 90 on Global History Regents or  
recommendation of Global History 10A Teacher

Description: This course is a full-year introductory college level course in United States history on the period from the first explorations of the Americas to the present. The course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. Students need to demonstrate self-discipline and motivation. The course is reading and writing intensive. An Advanced Placement exam will be offered in May. Cost of the examination is the responsibility of the student. Colleges may award credit based on the test score achieved by a student. In June, students are also required to pass a Regents Exam in order to attain Regents credit.

Name of Course: United States History & Government (A & B) Length of Course: 40 Weeks

Prerequisite: Global History & Geography 9 & 10 Credits: 1

Description: U.S. History and Government is a course designed to prepare students for life in our democratic society. The purpose of the curriculum is to show students how the Constitution is a “living” document and how it is relevant to everyday life. A chronological approach to America history is used as a vehicle to teach how the Constitution governs our behavior and influences the operation of government at all levels. The B level course contains methods and strategies that are geared toward helping to meet the needs of those students who may have difficulty with more traditional classroom teaching styles.

Name of Course: Economics 12 Length of Course: 20 Weeks

Prerequisite: U.S. History 11 (Regents or Advanced Placement) Credits: 1/2

Description: This is an introductory Micro and Macroeconomics theory and application course. The students learn basic theory from a textbook, and then through the use of supplemental article assignments and long-term projects, apply the theory to our everyday lives. The course is taught as a college “prep” course which emphasizes writing skills, synthesis and analysis of how the materials apply. General topics covered in the class include: supply and demand; market structure; economic growth; inflation and unemployment; economic enterprises; monetary and fiscal policy; money and banking. There is also a culminating project that consists of a research paper and an oral project (B level students have a choice as to which they wish to pursue).

Name of Course: Economics NCCC Length of Course: 20 Weeks

Prerequisite: U.S. History 11 (Regents or Advanced Placement) Credits: 1/2

Description: This is an introductory Micro and Macroeconomics theory and application course. The students learn basic theory from a textbook, and then through the use of supplemental article assignments and long-term projects, apply the theory to our everyday lives. The course is taught as a college “prep” course which emphasizes writing skills, synthesis and analysis of how the materials apply. General topics covered in the class include: supply and demand; market structure; economic growth; inflation and unemployment; economic enterprises; monetary and fiscal policy; money and banking. There is also a culminating project that consists of a research paper and an oral project (B level students have a choice as to which they wish to pursue).



Name of Course: Participation in Government

Length of Course: 20 Weeks

Prerequisite: U.S. History 11 (Regents or Advanced Placement)

Credits: 1/2

Description: The Participation in Government (P.I.G.) course is designed to give students an understanding of how they can become active participants in the formal governmental process and their community. The course teaches students ways they can influence their government officials directly and indirectly. Also it shows them various forms of political activism that can be used to accomplish their political goals and agendas throughout life. The curriculum places a great deal of emphasis on the "civic responsibilities" that each citizen must accept if we are to maintain our democratic way of life. The course instructs how to identify public policy issues, how to analyze public policy issues, and how to prescribe public policy as a solution to a problem faced by local, state, national or international governments. The curriculum utilizes discussion and study of current public policy issues of community and issues of a criminal nature facing the United States.

***The P.I.G. Classes also attend A Government Awareness Day at which they learn the purpose and function of county agencies and the county court system. The Government Awareness Project(GAP) is a collaboration effort between Franklin County Agency Leaders and the Franklin Academy Social studies Department. It provides students with a hands-on opportunity to learn about all aspects of their county government.***

Name of Course: Participation in Government (Service Learning Model)

Length of Course: 20 Weeks

Prerequisite: U.S. History 11 (Regents or Advanced Placement)

Credits: 1/2

Description: This is a Participation in Government course which follows a community service model. The course is designed to prepare students for participation and living in a democratic society. It will give students the opportunity to contribute directly to their community and to learn that by helping others they will help themselves. Students will have a wide range of placement opportunities including involvement with community agencies.

Requirements for the course include two classroom sessions per week and three on-site sessions per week. Also included will be successful completion of written work. Grading will be based on a combined evaluation between the teacher and the placement agency.

Name of Course: Holocaust

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: This course will study the period of 1933 through 1945, during the time of Nazi domination in Europe. The Holocaust is a compelling case study of human potential for extremes of both good and evil. Topics of study will include the following:

Prejudicial attitude	The Final Solution-deportation/resistance
Forerunners to the Holocaust	Concentration Camps/Liberation/Survivors
Implications for the Future	Anti-Semitism/Traditional and Racial
Nazi Thought	Afterward-Nuremberg Trials/Eickmann Trial
Adolf Hitler's Rise to Power	Response by Individuals, Institutions & Nations

Name of Course: Introduction to Archaeology

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: This course is intended to familiarize students with the field of archaeology. Students will examine the connections between human culture and material remains. They will learn about the different types of archaeology and some of the methods and technology used by archaeologists to try to explain past cultures. Students will be given an opportunity to practice some of the techniques used in artifact examination and field excavations. The course will culminate in a project designed by the student and presented to the class.

Name of Course: Organization of American States

Length of Course: 20 Weeks  
(Spring Semester only)

Prerequisite: U.S. History and Economics  
A minimum B+ average in US History  
or teacher recommendation is required.

Credits: 1/2

Description: The Organization of American States course is based on a Model United Nations principle where the students will be given a country, and over the course of the semester will study and research that country in preparation for a mock assembly of the OAS to be held on the campus of SUNY Plattsburgh in late May. The course is divided into five phases:

1. Research of the background of the country the students will represent.
2. The history and structure of the Organization of American States.
3. The art of questioning and argumentation (debate skills)
4. Practice the various procedures and writing resolutions in the Model Assembly.
5. Field trip to Washington, DC and/or Ottawa, Canada to interview Ambassador of the country the class represents accounts for 15% of the students' grade.
6. Attendance at the Model Assembly in Plattsburgh at Plattsburgh State College is required. The course will count as credit for the Participation in Government course required for graduation. **Students may opt to take the class for college credit.** The cost of tuition is the responsibility of the student and is about one-half the amount charged for an undergraduate course at a New York State College. In addition, each student who attends the mock assembly will have to pay a meal and rooming fee of approximately eighty five dollars for the three day conference.

The OAS Course is an experience designed to help high school student's transition into the academic rigors of college life.

Name of Course: AP Psychology

Length of Course: 40 Weeks

Prerequisite: Completed US History

Credits: 1

Description: The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice.

# TECHNOLOGY

Name of Course: Architectural Drawing

Length of Course: 20 Weeks

Prerequisite: Technical Drawing or Drawing  
Design for Production

Credits: 1/2

Description: A study of design and drafting related to building construction. Topics include culture and history, tools, and techniques, lettering and dimensioning, and preparation of site plans, floor plans, elevations and sections. If a student takes both Technical Drawing and Architectural Drawing it will fulfill their Art/Music graduation requirement.

Name of Course: Drawing and Design for Production

Length of Course: 40 Weeks

Prerequisite: None

Credits: 1

Description: A course that encourages visual problem solving, using common graphic language to describe forms in the man-made environment. Topics include elements of design and the application of drafting and design techniques to solve practical problems. This course satisfies the graduation requirement of 1 unit of Art/Music.

Name of Course: Computer Aided Drafting and Design (CADD 1) Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: CADD programs have many uses including the creation of technical drawings, 2D and 3D models, the generation of mass properties data. CADD designs may be modified quickly to try “what if” solutions to design problems. In the CADD course, students will learn to create technical drawings, models, and assemblies with an industrial quality CADD program. Most technical schools and colleges are changing their basic drawing courses to be computer drawing courses.

Name of Course: Computer Aided Manufacturing (CADD 2)

Length of Course: 20 Weeks

Prerequisite: CADD

Credits: 1/2

Description: In this course, students will create CADD designs then produce physical models. The students will use computer-controlled machines, such as 3D printers, CNC lathes and mills to fabricate their models. Topics include measuring with precision, tolerance, elements of design, basic machine operation, industrial automation, computer numeric control programming, and CNC machine operation.

Name of Course: Principles of Engineering Length of Course: 40 Weeks

Prerequisite: 2 years Regents Level Math, 2 years Regents Level Science, Desirable Physics Technical Drawing, or Instructors Permission. Credits: 1

Description: This is an integrated hands-on laboratory based course which introduces students to concepts of engineering. The focus of the course is on the applications of engineering concepts and strategies to the solutions of real-world problems. Students will be expected to apply skills and knowledge they have learned in their math and science courses.

Name of Course: Computer Graphics and Animation 1 Length of Course: 20 Weeks

Prerequisite: Any computer course or some computer experience with instructor's permission Credits: 1/2

Description: This course is designed to introduce students to a variety of 2D computer graphic applications. Topics include image creation using bitmap and vector graphics editors, image processing, cel animation, key frame animation, video processing and special effects. Typical activities will include free-hand sketching, drawing with shapes, creating cartoons, modifying photographs, and producing an animated music video.

Name of Course: Computer Graphics and Animation 2 Length of Course: 20 Weeks

Prerequisite: Computer Graphics and Animation 1 Credits: 1/2

Description: The focus of this course is on 3D computer graphic design. Students will use a 3D modeling program to create realistic objects and scenes. The students will create a 3D rendered video for a final project.

Name of Course: Materials Processing Length of Course: 20 Weeks

Prerequisite: None Credits: 1/2

Description: This course is designed to introduce the student to a variety of methods for processing material resources to make them more useful and to satisfy human needs and wants. The activities of this course are organized around five major families of processes: casting and molding, forming, separating, conditioning, and assembling. Properties of various materials will also be studied to see what they can and can not do. This course includes instruction and safety procedures on how to operate all shop equipment. Safety is given a priority.

Name of Course: Transportation Systems

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: An overview of aerospace, land and marine transportation systems from the wheel to the space shuttle and beyond. Students will become aware of the impact each new system has on our everyday need to commute from place to place. How we maintain and control various systems will also be explored.

Name of Course: Technical Drawing

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: This course provides a student of the basic concepts and principles of technical drawing as opposed to artistic drawing. Instruction is provided in seven basic areas: Sketching, Orthographic Projection, Pictorial Drawing, Section, Auxiliaries, Revolutions, Transitions, and Developments. Basic drawing technique and use of tools are covered. Intro to computer drawing is also possible. Hopefully students might work in groups and produce a set of working drawings by the end of the course. Typical activities include many drawings in the seven basic drawing areas: drafting board and tool drawings; drafting machine drawings; computer aided drafting introduction.

Name of Course: Construction Systems

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: This course provides instruction in construction (on-site building) methods used in the production industries. Activities might include: Model construction and possibly the construction of a small shed. It will also include some basic electrical wiring for switches and plug-ins plus some basic plumbing using copper and plastic pipe.

Name of Course: Manufacturing Systems

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: This course provides instruction in the production of goods/services in a factory setting. Instruction is centered around the activities in five different areas: Research and Development, Production, Marketing, Industrial Relations, and Finance and Control. Typical activities involve: Forming a company, Designing and mass-producing a product.

Name of Course: Robotics 1

Length of Course: 20 Weeks

Prerequisite: Successful completion of Algebra

Credits: 1/2

Description: Students will learn the fundamentals of electricity and electronics as applied to robotic systems. Students will use sensors and motors to control a robotic vehicle. Topics include analog and digital circuits, sensors, effectors, indicators, microcontrollers, and robots.

Name of Course: Robotics 2

Length of Course: 20 Weeks

Prerequisite: None

Credits: 1/2

Description: Students will use the skills and knowledge from the Robotics 1 course to design and build their own robotic device or vehicle. Topics include servomotors, circuit board design and fabrication, 3D CAD modeling, computer programming, and systems integration. The students will design a robotic device/vehicle in a 3D modeling program, design and create the electronic circuit board to control the robot, and then they will use the shop tools, computer controlled machines, and 3D printers to fabricate the parts for their design.

Name of Course: The World of Technology

Length of Course: 40 Weeks

Prerequisite: None (Suggested one year of High School Math.)

Credit: 1

Description: The World of Technology will provide students with opportunities to develop an Understanding of technology in the past, present and future. Through design-build and test activities students will model solutions to real life problems. Emphasis will be placed on MST Learning Standard 5 "Technology in a learner centered, laboratory based environment where students engage in processing materials, energy and information. Students will be provide with opportunities to reach high levels of learning, explore their abilities at innovation, and apply concepts of mathematics, science and other disciplines. This course will fulfill the requirement of a 3<sup>rd</sup> year of Math or Science.

# Computer Programming

Name of Course: Programming in BASIC

Length of Course: 40 Weeks

Prerequisite: None

Credits: 1

Description: This is a full-year course in programming in the popular computer language BASIC. It covers the full range of IBM BASIC programming from simple LET and PRINT statements to such complex concepts as sorting procedures and sequential and random access files. Also included is a unit on graphics as used on the IBM. BASIC is no longer deemed a second-class computer language and is much used in the computer industry. Students should consider this a serious programming course.

Name of Course: Programming in C

Length of Course: 40 Weeks

Prerequisite: None

Credits: 1

Description: A course in C would be similar to the course in Pascal, but use a different programming language. C, like Pascal, is popular in colleges and businesses where programming is done. To add this course to list of offerings would give potential college computer majors a strong background before leaving high school.

Name of Course: Advanced Computer Programming

Length of Course: 40 Weeks

Prerequisite: Programming in Basic or  
Programming in C recommended

Credit: 1

Description: This course builds on the skills learned in the introductory programming classes and introduces several commonly used data structures, including stacks, queues, pointers, and trees. Students will work independently on several long-term projects that use these data structures to solve real-world programming problems. Debugging techniques, computer graphics programming, and advanced algorithms, such as sorting and recursion, are covered as well.



# NEW VISION PROGRAMS

Name of Course: Health Care Career Exploration

Length of Course: 40 weeks

Credits: 4

Prerequisite: 12<sup>th</sup> grade students who have an interest in pursuing a health/medical major in college. Students must have completed three years of Math and three years of science (including Living Environment and Chemistry). In addition, they must be recommended by their guidance counselor or the principal.

Description: The New Vision concept will place students who have any interest in an allied Health career into a structured half day credit bearing program at Alice Hyde Medical Center. Students will have an opportunity to shadow every possible health related career that exists at our local hospital. Over 50 different shadowing experiences are available to the student. Students will spend at least half a day at the Alice Hyde Medical Center. Participants will take English 12, Anatomy and Physiology, Economics/Government and the Health Career Exploration Experience.

Name of Course: Law and Government

Length of Course: 40 weeks

Credits: 4

Prerequisite: 12<sup>th</sup> grade students who plan on pursuing a post-secondary education in a legal field (lawyer, law enforcement, Department of Social Services). Students must have three math and three science credits. In addition, they must be recommended by their guidance counselor or the principal.

Description: The New Vision Law and government program will place students in a half day credit bearing program at the courthouse and other appropriate agencies in the Malone area. Students will have the opportunity to shadow a wide variety of careers. Participants will take English 12, Government, Economics, Political Science and a Law and Government Exploration Class while at New Vision.

Name of Course: Coding and Gaming

Length of Course: 40 weeks

Credits: 4

Prerequisites: Students must have taken Algebra, Geometry, and Trigonometry and maintained a minimum 85 average.

Description: 12<sup>th</sup> grade students who have an interest in the process of designing and coding programmatic logic for games, including game rules, mechanics and simulations, to create and complete modules and game experiences. Students will learn the fundamentals of programming, design and production of modern gaming systems. They will be immersed in such scripted programming languages as C# (pronounced C sharp), gaming engines (such as Unity, Unreal, and Microsoft Visual Studio). Students will have access to a laptop computer, remote server access, and an on-line classroom environment in addition to classroom instruction.

# NORTH FRANKLIN EDUCATIONAL CENTER

## Career & Technical Education

The following is a list of courses offered at the North Franklin Educational Center located next to the high school. Students attend half day at Franklin Academy and the other half at the North Franklin Educational Center.

Name of Course: Automotive Technology

Description: The Automotive Technology course is a training program that focuses on the inspection, diagnosis, repair, maintenance and adjustment of cars and light trucks. The student will develop a broad understanding of the scientific principles underlying the function of the various systems found in today's vehicles. Theory and practical work are provided in areas ranging from lubrication systems to engine analyzers and wheel alignment. Student and community members' cars are used to develop skillful use of all tools and equipment found in the automotive trade.

Name of Course: Building Trades

Description: Building Trades is composed of several modules of instruction including basic construction, siding, roofing, and masonry. Students learn to frame a building, do estimating, layout, apply siding, gather systems and form moldings. There is also an introduction to "trowel trade", concrete and block work.

Practical experience is gained on small projects completed in the classroom and on job sites building homes. Work continues on outdoor projects throughout the year regardless of the weather.

Name of Course: Early Childhood Education

Description: The course will provide the student with a knowledge base and practical experience in Child Development for application to his or her present role as a family member, as a future parent, and particularly in a career. The students will explore how to help all children, prenatal through school age, establish optimal physical, emotional, social and cognitive foundations. The student will have the opportunity to interact with children in a pre-school or kindergarten classroom several days a week.

Name of Course: Cosmetology

Description: Cosmetology is a two-year program which offers instruction and practical experience in the skills and theory necessary to be employed as a hairdresser. This includes care of hair, skin, nails and all related services offered in a beauty salon. Equipment used in the cosmetology laboratory is equivalent to that found in a modern shop. Students must fulfill the requirement of one thousand instructional hours. To achieve this the student must have exceptional attendance. The successful completion of the program qualifies the students to take the New York Cosmetology Licensing Examination.

Name of Course: Culinary Arts

Description: Culinary Arts is a program of training in preparing and serving food with "hands-on" and short-order cooking are emphasized. The major areas of instruction include the preparation of meats, poultry, fish, salads, sandwiches, desserts and bakery items.

Name of Course: Electrical Trades

Description: Electrical trades is a program providing classroom instruction and on-site activities in the installation, troubleshooting and repair of residential, commercial and industrial electrical wiring systems. Training is given in the installation and maintenance of motors, generators and control equipment used in homes, office, stores and factories.

Name of Course: Health Occupations

Description: Health Occupations is a program providing basic entry level skills in the health care field. Students will receive American Heart Association certification in CPR, AED, and First Aid.

The first year students focus on the theory and clinical skills to become a Certified Nurse's Aide. The successful completion of the first year qualifies the student to take the New York State Nurse Aide Exam.

The second year students expand their opportunities in the health care field by focusing on maternity, Alzheimer's, EKG, and Phlebotomy. After the successful completion of the EKG and Phlebotomy units students are eligible to take the National EKG and Phlebotomy certification exams.

Name of Course: Heavy Equipment

Description: Heavy equipment Operation & Repair is a program emphasizing the basic heavy equipment operation. The program includes theory and "hands-on" experience in the areas of preventative maintenance, reconditioning, and troubleshooting heavy equipment track and rubber-tired vehicles, as well as their operation.